### FA-86

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# SAFETY DATA SHEET

#### FA-86

Section 1. Identification		
GHS product identifier Chemical name CAS number Other means of identification Product type	:	FA-86 Mixture Mixture CC10256461 liquid
<u>Relevant identified uses of the sub</u> Product use	stance :	or mixture and uses advised against Industrial applications. Plastics.
Supplier's details	:	<b>POLYONE CORPORATION</b> ColorMatrix Group Inc. 680 North Rocky River Drive, Berea, Ohio, 44017-1628, USA
		+1 216 622 0100
Emergency telephone number (with hours of operation)	:	CHEMTREC 1-800-424-9300 (24hrs for spill, leak, fire, exposure or accident).

# Section 2. Hazards identification

This mixture has not been evaluated as a whole for health effects. Information provided on health effects of this product is based on the individual components. However, some vapors or contaminants may be released upon heating and the end-user (fabricator) must take the necessary precautions (mechanical ventilation, respiratory protection, etc.) to protect employees from exposure. See sections 8 and 11 for special precautions. After handling, always wash hands thoroughly with soap and water.

OSHA/HCS status	:	This material is considered hazardous by the OSHA Hazard Communication Standard (29 CFR 1910.1200).
Classification of the substance or mixture	:	SKIN IRRITATION - Category 2 EYE IRRITATION - Category 2A RESPIRATORY SENSITIZATION - Category 1 SKIN SENSITIZATION - Category 1 GERM CELL MUTAGENICITY - Category 2

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<u>GHS label elements</u>	
Hazard pictograms	
Signal word Hazard statements	<ul> <li>Danger</li> <li>Causes serious eye irritation. Causes skin irritation. May cause allergy or asthma symptoms or breathing difficulties if inhaled. May cause an allergic skin reaction. Suspected of causing genetic defects.</li> </ul>
Precautionary statements	
General Prevention	<ul> <li>Not applicable.</li> <li>Obtain special instructions before use. Do not handle until all safety precautions have been read and understood. Wear protective gloves. Wear eye or face protection. Wear protective clothing. Wear respiratory protection. Avoid breathing vapor. Wash hands thoroughly after handling. Contaminated work clothing must not be allowed out of the workplace.</li> </ul>
Response	: IF exposed or concerned: Get medical attention. IF INHALED: If breathing is difficult, remove person to fresh air and keep comfortable for breathing. If experiencing respiratory symptoms: Call a POISON CENTER or physician. IF ON SKIN: Wash with plenty of soap and water. Wash contaminated clothing before reuse. If skin irritation or rash occurs: Get medical attention. IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. If eye irritation persists: Get medical attention.
Storage Disposal	<ul> <li>Store locked up.</li> <li>Dispose of contents and container in accordance with all local, regional, national and international regulations.</li> </ul>
Supplemental label elements Hazards not otherwise classified	<ul><li>None known.</li><li>None known.</li></ul>

# Section 3. Composition/information on ingredients

Substance/mixture	:	Mixture
Chemical name	:	Mixture

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**Other means of identification** : CC10256461

CAS number/other identifiers

Ingredient name	%	CAS number
Azodicarbonamide	25 - 50	123-77-3
Miscellaneous Compounds Distillates, petroleum, hydrotreated middle	10 - 25	Not available.
Diphenyloxide-4,4'-disulfohydrazide	5 - 10	80-51-3
Sodium bicarbonate	5 - 10	144-55-8
Calcium oxide	1 - 3	1305-78-8
Zinc oxide	1 - 3	1314-13-2

Any concentration shown as a range is to protect confidentiality or is due to batch variation.

There are no additional ingredients present which, within the current knowledge of the supplier and in the concentrations applicable, are classified as hazardous to health or the environment and hence require reporting in this section.

Occupational exposure limits, if available, are listed in Section 8.

# Section 4. First aid measures

Description of necessary first aid measures

Eye contact	: Immediately flush eyes with plenty of water, occasionally lifting the upper and lower eyelids. Check for and remove any contact lenses. Continue to rinse for at least 10 minutes. Get medical attention.	
Inhalation	<ul> <li>Remove victim to fresh air and keep at rest in a position comfortable for breathing. If it is suspected that fumes are still present, the rescuer should wear an appropriate mask or self-contained breathing apparatus. If not breathing, if breathing is irregular or if respiratory arrest occurs, provide artificial respiration or oxygen by trained personnel. It may be dangerous to the person providing aid to give mouth-to-mouth resuscitation. Get medical attention. If necessary, call</li> </ul>	
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	a poison center or physician. If unconscious, place in recovery position and get medical attention immediately. Maintain an open airway. Loosen tight clothing such as a collar, tie, belt or waistband. In case of inhalation of decomposition products in a fire, symptoms may be delayed. The exposed person may need to be kept under medical surveillance for 48 hours. In the event of any complaints or symptoms, avoid further exposure.
Skin contact	<ul> <li>Wash with plenty of soap and water. Remove contaminated clothing and shoes. Wash contaminated clothing thoroughly with water before removing it, or wear gloves. Continue to rinse for at least 10 minutes. Get medical attention. In the event of any complaints or symptoms, avoid further exposure. Wash clothing before reuse. Clean shoes thoroughly before reuse.</li> </ul>
Ingestion	<ul> <li>Wash out mouth with water. Remove dentures if any. Remove victim to fresh air and keep at rest in a position comfortable for breathing. If material has been swallowed and the exposed person is conscious, give small quantities of water to drink. Stop if the exposed person feels sick as vomiting may be dangerous. Do not induce vomiting unless directed to do so by medical personnel. If vomiting occurs, the head should be kept low so that vomit does not enter the lungs. Get medical attention. Never give anything by mouth to an unconscious person. If unconscious, place in recovery position and get medical attention immediately. Maintain an open airway. Loosen tight clothing such as a collar, tie, belt or waistband.</li> </ul>

#### Most important symptoms/effects, acute and delayed

#### Potential acute health effects

Eye contact Inhalation	:	Causes serious eye irritation. May cause allergy or asthma symptoms or breathing difficulties if inhaled.	
Skin contact	:	Causes skin irritation. May cause an allergic skin reaction.	
Ingestion	:	No known significant effects or critical hazards.	
Over-exposure signs/symptoms			
Eye contact	:	Adverse symptoms may include the following: pain or irritation watering redness	
Inhalation	:	Adverse symptoms may include the following: wheezing and breathing difficulties asthma	
Skin contact	:	Adverse symptoms may include the following: irritation	
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Ingestion	:	redness No specific data.
Indication of immediate medical	attentio	n and special treatment needed, if necessary
Notes to physician	:	In case of inhalation of decomposition products in a fire, symptoms may be delayed. The exposed person may need to be kept under medical surveillance for 48 hours.
Specific treatments	:	No specific treatment.
Protection of first-aiders	:	No action shall be taken involving any personal risk or without suitable training. If it is suspected that fumes are still present, the rescuer should wear an appropriate mask or self-contained breathing apparatus. It may be dangerous to the person providing aid to give mouth-to-mouth resuscitation. Wash contaminated clothing thoroughly with water before removing it, or wear gloves.

See toxicological information (Section 11)

# Section 5. Firefighting measures

#### Extinguishing media

Suitable extinguishing media Unsuitable extinguishing media	:	In case of fire, use water spray (fog), foam, dry chemical or $CO_2$ . None known.
Specific hazards arising from the chemical Hazardous thermal decomposition products	:	In a fire or if heated, a pressure increase will occur and the container may burst. Decomposition products may include the following materials: carbon dioxide carbon monoxide nitrogen oxides sulfur oxides metal oxide/oxides
Special protective actions for fire- fighters Special protective equipment for fire-fighters	:	Promptly isolate the scene by removing all persons from the vicinity of the incident if there is a fire. No action shall be taken involving any personal risk or without suitable training. Fire-fighters should wear appropriate protective equipment and self- contained breathing apparatus (SCBA) with a full face-piece operated in positive pressure mode.

# Section 6. Accidental release measures

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#### Personal precautions, protective equipment and emergency procedures

For non-emergency personnel For emergency responders	:	No action shall be taken involving any personal risk or without suitable training. Evacuate surrounding areas. Keep unnecessary and unprotected personnel from entering. Do not touch or walk through spilled material. Avoid breathing vapor or mist. Provide adequate ventilation. Wear appropriate respirator when ventilation is inadequate. Put on appropriate personal protective equipment. If specialized clothing is required to deal with the spillage, take note of any information in Section 8 on suitable and unsuitable materials. See also the information in "For non-emergency personnel".
Environmental precautions	:	Avoid dispersal of spilled material and runoff and contact with soil, waterways, drains and sewers. Inform the relevant authorities if the product has caused environmental pollution (sewers, waterways, soil or air).
Methods and materials for containme	nt a	nd cleaning up
Small spill	:	Stop leak if without risk. Move containers from spill area. Dilute with water and mop up if water-soluble. Alternatively, or if water-insoluble, absorb with an inert dry material and place in an appropriate waste disposal container. Dispose of via a licensed waste disposal contractor.
Large spill	:	Stop leak if without risk. Move containers from spill area. Approach release from upwind. Prevent entry into sewers, water courses, basements or confined areas. Wash spillages into an effluent treatment plant or proceed as follows. Contain and collect spillage with non- combustible, absorbent material e.g. sand, earth, vermiculite or diatomaceous earth and place in container for disposal according to local regulations (see Section 13). Dispose of via a licensed waste disposal contractor. Contaminated absorbent material may pose the same hazard as the spilled product. Note: see Section 1 for emergency contact information and Section 13 for waste disposal.

# Section 7. Handling and storage

#### Precautions for safe handling

Protective measures	:	Put on appropriate personal protective equipment (see Section 8). Persons with a history of skin sensitization problems or asthma, allergies or chronic or recurrent respiratory disease should not be employed in any process in which this product is used. Avoid exposure - obtain special instructions before use. Do not handle until all safety precautions have been read and understood. Do not get in
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Advice on general occupational hygiene	<ul> <li>eyes or on skin or clothing. Do not ingest. Avoid breathing vapor or mist. Use only with adequate ventilation. Wear appropriate respirator when ventilation is inadequate. Keep in the original container or an approved alternative made from a compatible material, kept tightly closed when not in use. Empty containers retain product residue and can be hazardous. Do not reuse container.</li> <li>Eating, drinking and smoking should be prohibited in areas where this material is handled, stored and processed. Workers should wash hands and face before eating, drinking and smoking. Remove contaminated clothing and protective equipment before entering eating areas. See also Section 8 for additional information on hygiene measures.</li> </ul>
Conditions for safe storage, including any incompatibilities	: Store in accordance with local regulations. Store in original container protected from direct sunlight in a dry, cool and well-ventilated area, away from incompatible materials (see Section 10) and food and drink. Store in a well-ventilated place. Keep container tightly closed and sealed until ready for use. Containers that have been opened must be carefully resealed and kept upright to prevent leakage. Do not store in unlabeled containers. Use appropriate containment to avoid environmental contamination.

# Section 8. Exposure controls/personal protection

#### **Control parameters**

#### **Occupational exposure limits**

Ingredient name	Exposure limits
Azodicarbonamide	None.
Miscellaneous Compounds Distillates, petroleum, hydrotreated middle	None.
Sodium bicarbonate	None.
Diphenyloxide-4,4'-disulfohydrazide	ACGIH TLV (2000-03-01) TWA 0.1 mg/m3 Form: Inhalable fraction
Zinc oxide	OSHA PEL 1989 (1989-03-01) TWA 5 mg/m3 Form: Fume STEL 10 mg/m3 Form: Fume TWA 10 mg/m3 Form: Total dust TWA 5 mg/m3 Form: Respirable fraction OSHA PEL (1993-06-30)

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		1
	<ul> <li>TWA 15 mg/m3 Form: Total dust</li> <li>TWA 5 mg/m3 Form: Respirable fraction</li> <li>NIOSH REL (1994-06-01)</li> <li>TWA 5 mg/m3 Form: Dust and fumes</li> <li>STEL 10 mg/m3 Form: Fume</li> <li>CEIL 15 mg/m3 Form: Dust</li> <li>ACGIH TLV (2003-01-01)</li> <li>TWA 2 mg/m3 Form: Respirable fraction</li> <li>STEL 10 mg/m3 Form: Respirable fraction</li> <li>OSHA PEL (1993-06-30)</li> <li>TWA 5 mg/m3 Form: Fume</li> </ul>	
Calcium oxide	OSHA PEL 1989 (1989-03-01) TWA 5 mg/m3 OSHA PEL (1993-06-30) TWA 5 mg/m3 NIOSH REL (1994-06-01) TWA 2 mg/m3 ACGIH TLV (1994-09-01) TWA 2 mg/m3	
Appropriate engineering controls Environmental exposure controls	<ul> <li>Use only with adequate ventilation. If user operations generate du fumes, gas, vapor or mist, use process enclosures, local exhaust ventilation or other engineering controls to keep worker exposure airborne contaminants below any recommended or statutory limit.</li> <li>Emissions from ventilation or work process equipment should be checked to ensure they comply with the requirements of environmental protection legislation. In some cases, fume scrubbe filters or engineering modifications to the process equipment will necessary to reduce emissions to acceptable levels.</li> </ul>	e to ts. ers,
Individual protection measures		
Hygiene measures Eye/face protection	<ul> <li>Wash hands, forearms and face thoroughly after handling chemic products, before eating, smoking and using the lavatory and at the of the working period. Appropriate techniques should be used to remove potentially contaminated clothing. Contaminated work clothing should not be allowed out of the workplace. Wash contaminated clothing before reusing. Ensure that eyewash statio and safety showers are close to the workstation location.</li> <li>Safety eyewear complying with an approved standard should be used to when a risk assessment indicates this is necessary to avoid expose liquid splashes, mists, gases or dusts. If contact is possible, the</li> </ul>	e end ns used
	following protection should be worn, unless the assessment indication higher degree of protection: chemical splash goggles.	ates a

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Skin protection		
Hand protection	:	Chemical-resistant, impervious gloves complying with an approved standard should be worn at all times when handling chemical products if a risk assessment indicates this is necessary. Considering the parameters specified by the glove manufacturer, check during use that the gloves are still retaining their protective properties. It should be noted that the time to breakthrough for any glove material may be different for different glove manufacturers. In the case of mixtures, consisting of several substances, the protection time of the gloves cannot be accurately estimated.
Body protection	:	Personal protective equipment for the body should be selected based on the task being performed and the risks involved and should be approved by a specialist before handling this product.
Other skin protection	:	Appropriate footwear and any additional skin protection measures should be selected based on the task being performed and the risks involved and should be approved by a specialist before handling this product.
Respiratory protection	:	Based on the hazard and potential for exposure, select a respirator that meets the appropriate standard or certification. Respirators must be used according to a respiratory protection program to ensure proper fitting, training, and other important aspects of use.

# Section 9. Physical and chemical properties

#### **Appearance**

Color:NOT APPLICABLEOdor:Faint odor.Odor threshold:Not available.pH:Not available.Melting point:Not available.Boiling point:Not available.Boiling point:Not available.Flash point:Not available.Burning time:Not available.Burning rate:Not available.Evaporation rate:Not available.Flammability (solid, gas):Not available.Lower and upper explosive:Lower: Not available.(flammable) limitsupper: Not available.Vapor pressure:Not available.Vapor density:Not available.Calubility::Not available.Solubility::Not available.	Physical state	:	liquid [liquid]
Odor threshold:Not available.pH:Not available.Melting point:Not available.Boiling point:Not available.Boiling point:Not available.Flash point:Not available.Burning time:Not available.Burning rate:Not available.Evaporation rate:Not available.Flammability (solid, gas):Not available.Lower and upper explosive:Lower: Not available.(flammable) limits:Upper: Not available.Vapor pressure:Not available.Vapor density:Not available.Relative density:Not available.	Color	:	NOT APPLICABLE
pH:Not available.Melting point:Not available.Boiling point:Not available.Boiling point:Not available.Flash point:Not available.Burning time:Not available.Burning rate:Not available.Evaporation rate:Not available.Flammability (solid, gas):Not available.Lower and upper explosive:Lower: Not available.(flammable) limits:Upper: Not available.Vapor pressure:Not available.Vapor density:Not available.Relative density:Not available.	Odor	:	Faint odor.
Melting point:Not available.Boiling point:Not available.Boiling point:Not available.Flash point:Not available.Burning time:Not available.Burning rate:Not available.Evaporation rate:Not available.Flammability (solid, gas):Not available.Lower and upper explosive:Lower: Not available.(flammable) limits:Upper: Not available.Vapor pressure:Not available.Vapor density:Not available.Relative density:Not available.	Odor threshold	:	Not available.
Boiling point:Not available.Flash point:Not available.Burning time:Not available.Burning rate:Not available.Evaporation rate:Not available.Flammability (solid, gas):Not available.Lower and upper explosive:Lower: Not available.(flammable) limits:Upper: Not available.Vapor pressure:Not available.Vapor density:Not available.Relative density:Not available.	рН	:	Not available.
Flash point:Not available.Burning time:Not available.Burning rate:Not available.Evaporation rate:Not available.Flammability (solid, gas):Not available.Lower and upper explosive:Lower: Not available.(flammable) limitsUpper: Not available.Vapor pressure:Not available.Vapor density:Not available.Relative density:Not available.	Melting point	:	Not available.
Burning time:Not available.Burning rate:Not available.Burning rate:Not available.Evaporation rate:Not available.Flammability (solid, gas):Not available.Lower and upper explosive:Lower: Not available.(flammable) limitsUpper: Not available.Vapor pressure:Not available.Vapor density:Not available.Relative density:Not available.	Boiling point	:	Not available.
Burning rate:Not available.Evaporation rate:Not available.Flammability (solid, gas):Not available.Flammability (solid, gas):Lower: Not available.Lower and upper explosive:Lower: Not available.(flammable) limitsUpper: Not available.Vapor pressure:Not available.Vapor density:Not available.Relative density:Not available.	Flash point	:	Not available.
Evaporation rate:Not available.Flammability (solid, gas):Not available.Lower and upper explosive:Lower: Not available.(flammable) limitsUpper: Not available.Vapor pressure:Not available.Vapor density:Not available.Relative density:Not available.	Burning time	:	Not available.
Flammability (solid, gas):Not available.Lower and upper explosive:Lower: Not available.(flammable) limitsUpper: Not available.Vapor pressure:Not available.Vapor density:Not available.Relative density:Not available.	Burning rate	:	Not available.
Lower and upper explosive (flammable) limits:Lower: Not available.(flammable) limitsUpper: Not available.Vapor pressure:Not available.Vapor density:Not available.Relative density:Not available.	Evaporation rate	:	Not available.
(flammable) limitsUpper: Not available.Vapor pressure: Not available.Vapor density: Not available.Relative density: Not available.	Flammability (solid, gas)	:	Not available.
Vapor pressure:Not available.Vapor density:Not available.Relative density:Not available.	Lower and upper explosive	:	Lower: Not available.
Vapor density:Not available.Relative density:Not available.	(flammable) limits		Upper: Not available.
<b>Relative density</b> : Not available.	Vapor pressure	:	Not available.
•	Vapor density	:	Not available.
Solubility Not available	Relative density	:	Not available.
Solubility : Not available.	Solubility	:	Not available.

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Solubility in water	:	insoluble in water.
Partition coefficient: n- octanol/water	:	Not available.
Auto-ignition temperature	:	Not available.
Decomposition temperature	:	Not available.
SADT	:	Not available.
Viscosity	:	<b>Dynamic:</b> Not available. <b>Kinematic:</b> Not available.

# Section 10. Stability and reactivity

Reactivity	:	No specific test data related to reactivity available for this product or its ingredients.
Chemical stability	:	Stable under recommended storage and handling conditions (see Section 7).
Possibility of hazardous reactions	:	Under normal conditions of storage and use, hazardous reactions will not occur.
Conditions to avoid	:	Keep away from extreme heat and oxidizing agents.
Incompatible materials	:	Keep away from strong acids. Oxidizer.
Hazardous decomposition products	:	Under normal conditions of storage and use, hazardous decomposition products should not be produced.

# Section 11. Toxicological information

This mixture has not been evaluated as a whole for health effects. Exposure effects listed are based on existing health data for the individual components which comprise the mixture.

#### Information on toxicological effects

#### Acute toxicity

Product/ingredient name	Result	Species	Dose	Exposure	
Remarks - Oral:	No applicable tox	icity data			
Remarks - Inhalation:	No applicable tox	icity data			
Remarks - Dermal:	No applicable tox	icity data			
Remarks - Oral:	No applicable tox	icity data			
Remarks - Inhalation:	No applicable tox	No applicable toxicity data			
Remarks - Dermal:	No applicable tox	No applicable toxicity data			
Diphenyloxide-4,4'-disulfohyd	phenyloxide-4,4'-disulfohydrazide				
	LD50 Oral	Rat	2,300 mg/kg	-	
Remarks - Inhalation:	No applicable toxicity data				

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Remarks - Dermal:	No applicable toxicity data				
Sodium bicarbonate	· · · ·				
	LD50 Oral	Rat	4,220 mg/kg	-	
<b>Remarks - Inhalation:</b>	No applicable toxic	city data			
Remarks - Dermal:	No applicable toxic	city data			
Miscellaneous Compounds Dis	stillates, petroleum, l	hydrotreated middle			
Remarks - Oral:	No applicable toxic	No applicable toxicity data			
Remarks - Inhalation:	No applicable toxic	No applicable toxicity data			
Remarks - Dermal:	No applicable toxic	No applicable toxicity data			
Azodicarbonamide	onamide				
	LD50 Oral Rat 6,400 mg/kg -				
<b>Remarks - Inhalation:</b>	No applicable toxicity data				
<b>Remarks - Dermal:</b>	No applicable toxicity data				
Conclusion/Summary	Mixture Not fully tested.				

**Conclusion/Summary** 

Mixture.Not fully tested.

#### Irritation/Corrosion

Product/ingredient name	Result	Species	Score	Exposure	Observation
Zinc oxide	Eyes - Mild irritant	Rabbit		24 hrs	-
	Skin - Mild	Rabbit		24 hrs	-
	irritant	D 11'		0.000.1	
Sodium bicarbonate	Eyes - Mild irritant	Rabbit		0.008 hrs	-
	Skin - Mild irritant	Human		72 hrs	-
Conclusion/Summary		1	1	<b>I</b>	I
Skin	: N	lixture.Not ful	ly tested.		
Eyes	: N	lixture.Not ful	ly tested.		
Respiratory	: N	lixture.Not ful	ly tested.		
<u>Sensitization</u>					
Conclusion/Summary					
Skin		lixture.Not ful			
Respiratory	: N	lixture.Not ful	ly tested.		
<b>Mutagenicity</b>					
Conclusion/Summary	: N	lixture.Not ful	ly tested.		
<b>Carcinogenicity</b>					
Conclusion/Summary	: N	lixture.Not ful	ly tested.		
		11/0			

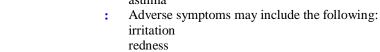


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<u>Reproductive toxicity</u>					
Conclusion/Summary	: Mixture.	Not fully tested.			
Teratogenicity					
Conclusion/Summary	: Mixture.	Not fully tested.			
·		ittor fully tested.			
Specific target organ toxicit					
Product/ingredient name	Category	Route of exposure	Target organs		
Calcium oxide	Category 3		Respiratory tract irritation		
<u>Specific target organ toxicit</u> Not available. <u>Aspiration hazard</u>	y (repeated exposure)				
Product/ingredient name		Result			
Miscellaneous Compounds Di	stillates, petroleum,	ASPIRATION HAZ	ARD - Category 1		
hydrotreated middle					
Information on likely routes exposure <u>Potential acute health effects</u>		lable.			
Eye contact	: Causes se	erious eye irritation.			
Inhalation			oms or breathing difficulties if		
	inhaled.		-		
Skin contact		kin irritation. May cause ar			
Ingestion	: No know	n significant effects or crit	ical hazards.		
Symptoms related to the phy	sical, chemical and to	xicological characteristics	<u>.</u>		
Eye contact	: Adverse s pain or ir watering redness	symptoms may include the ritation	following:		
Inhalation		symptoms may include the g and breathing difficulties	following:		
Skin contact	: Adverse	Adverse symptoms may include the following:			



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Delayed and immediate effects as well as chronic effects from short and long-term exposure Short term exposure **Potential immediate effects** Not available. : **Potential delayed effects** Not available. : Long term exposure **Potential immediate effects** Not available. : Not available. **Potential delayed effects** : Potential chronic health effects Mixture.Not fully tested. **Conclusion/Summary** : General Once sensitized, a severe allergic reaction may occur when : subsequently exposed to very low levels. No known significant effects or critical hazards. Carcinogenicity : Mutagenicity Suspected of causing genetic defects. : No known significant effects or critical hazards. Teratogenicity : No known significant effects or critical hazards. **Developmental effects** : **Fertility effects** No known significant effects or critical hazards. :

No specific data.

:

Numerical measures of toxicity

#### Acute toxicity estimates

Route	ATE value
Oral	8,594.7 mg/kg
Route	ATE value
Inhalation (dusts and mists)	6.522 mg/l

# Section 12. Ecological information

#### **Toxicity**

Product/ingredient name	Result	Species	Exposure
Calcium oxide			
Remarks - Acute - Fish:	No applicable toxicity data		

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Remarks - Acute - Aquatic	No applicable toxicity data			
invertebrates.:	two applicable toxicity data			
<b>Remarks - Acute - Aquatic</b>	No applicable toxicity data			
plants:				
	Chronic NOEC 100 Mg/l Fresh	Fish - Fish	46 d	
	water			
Remarks - Chronic - Fish:	Chronic			
Remarks - Chronic -	No applicable toxicity data			
Aquatic invertebrates.:				
Zinc oxide		-		
	Acute LC50 1.1 Mg/l Fresh water	Fish - Fish	96 h	
Remarks - Acute - Fish:	Acute		-	
	Acute LC50 0.098 Mg/l Fresh	Aquatic invertebrates.	48 h	
	water	Daphnia		
Remarks - Acute - Aquatic	Acute			
invertebrates.:				
	Acute IC50 0.046 Mg/l Fresh water	Aquatic plants - Algae	72 h	
Remarks - Acute - Aquatic	Acute			
plants:				
	Acute IC50 1.85 Mg/l Marine	Aquatic plants - Algae	96 h	
	water			
Remarks - Acute - Aquatic	Acute			
plants:				
Remarks - Chronic - Fish:	No applicable toxicity data			
Remarks - Chronic -	No applicable toxicity data			
Aquatic invertebrates.: Diphenyloxide-4,4'-disulfohyd	rezide			
Remarks - Acute - Fish:	No applicable toxicity data			
Remarks - Acute - Aquatic	No applicable toxicity data			
invertebrates.:	No applicable toxicity data			
Remarks - Acute - Aquatic	No applicable toxicity data			
plants:	No applicable toxicity data			
Remarks - Chronic - Fish:	No applicable toxicity data			
Remarks - Chronic -	No applicable toxicity data			
Aquatic invertebrates.:	The applicable toxicity data			
Sodium bicarbonate				
	Acute LC50 7,550 Mg/l Fresh	Fish - Fish	96 h	
	water		yo n	
Remarks - Acute - Fish:	Acute	1	1	
	Acute LC50 767.87 Mg/l Marine	Aquatic invertebrates.	48 h	
	water	Crustaceans		
Remarks - Acute - Aquatic	Acute		·	
invertebrates.:				
	Acute EC50 650 Mg/l Fresh water	Aquatic plants - Algae	96 h	
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Remarks - Acute - Aquatic	Acute		
plants:			
<b>Remarks - Chronic - Fish:</b>	No applicable toxicity data		
	Chronic NOEC 576 Mg/l Fresh	Aquatic invertebrates.	21 d
	water	Daphnia	
Remarks - Chronic -	Chronic		
Aquatic invertebrates.:			
^	stillates, petroleum, hydrotreated midd	le	
Remarks - Acute - Fish:	No applicable toxicity data		
Remarks - Acute - Aquatic	No applicable toxicity data		
invertebrates.:			
Remarks - Acute - Aquatic	No applicable toxicity data		
plants:			
<b>Remarks - Chronic - Fish:</b>	No applicable toxicity data		
Remarks - Chronic -	No applicable toxicity data		
Aquatic invertebrates.:			
Azodicarbonamide			
Remarks - Acute - Fish:	No applicable toxicity data		
Remarks - Acute - Aquatic	No applicable toxicity data		
invertebrates.:			
Remarks - Acute - Aquatic	No applicable toxicity data		
plants:			
Remarks - Chronic - Fish:	No applicable toxicity data		
<b>Remarks - Chronic -</b>	No applicable toxicity data		
Aquatic invertebrates.:			
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Remarks - Acute - Aquatic	Dangerous for the environment: May	cause long term adverse e	ffects in the aquatic
invertebrates.:	environment.		
<b>Conclusion/Summary</b>		onment: May cause long te	rm adverse effects
	in the aquatic environme	ent.	
Persistence and degradability	<u>v</u>		

Conclusion/Summary

: Not available.

#### **Bioaccumulative potential**

Product/ingredient name	LogPow	BCF	Potential
Calcium oxide	-	2.34	low
Zinc oxide	-	60,960.00	high
Diphenyloxide-4,4'-disulfohydrazide	-	3.00	low
Azodicarbonamide	1	-	low

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#### <u>Mobility in soil</u>

Soil/water partition coefficient : (KOC) Other adverse effects :

: No known significant effects or critical hazards.

Not available.

# Section 13. Disposal considerations

:

**Disposal methods** 

The generation of waste should be avoided or minimized wherever possible. Disposal of this product, solutions and any by-products should at all times comply with the requirements of environmental protection and waste disposal legislation and any regional local authority requirements. Dispose of surplus and non-recyclable products via a licensed waste disposal contractor. Waste should not be disposed of untreated to the sewer unless fully compliant with the requirements of all authorities with jurisdiction. Waste packaging should be recycled. Incineration or landfill should only be considered when recycling is not feasible. This material and its container must be disposed of in a safe way. Care should be taken when handling emptied containers that have not been cleaned or rinsed out. Empty containers or liners may retain some product residues. Avoid dispersal of spilled material and runoff and contact with soil, waterways, drains and sewers.

United States - RCRA Acute hazardous waste "P" List: Not listed

United States - RCRA Toxic hazardous waste "U" List: Not listed

# Section 14. Transport information

U.S.DOT 49CFR Ground/Air/Water	:	Not regulated for transportation.
International Air ICAO/IATA	:	UN3082, ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (Diphenyloxide-4,4'-disulphonylhydrazide), 9, PGIII, Marine Pollutant
International Water IMO/IMDG	:	UN3082, ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (Diphenyloxide-4,4'-disulphonylhydrazide), 9, PGIII, Marine Pollutant

# Section 15. Regulatory information

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U.S. Federal regulations	:	<ul> <li>United States - TSCA 12(b) - Chemical export notification: None of the components are listed.</li> <li>United States - TSCA 4(a) - Final Test Rules: Not listed</li> <li>United States - TSCA 4(a) - ITC Priority list: Not listed</li> <li>United States - TSCA 4(a) - Proposed test rules: Not listed</li> <li>United States - TSCA 4(f) - Priority risk review: Not listed</li> <li>United States - TSCA 4(f) - Priority risk review: Not listed</li> <li>United States - TSCA 5(a) - Proposed test rules: Not listed</li> <li>United States - TSCA 5(a) - Proposed significant new use rules: Not listed</li> <li>United States - TSCA 5(c) - Substances consent order: Not listed</li> <li>United States - TSCA 5(c) - Substances consent order: Not listed</li> <li>United States - TSCA 6 - Final risk management: Not listed</li> <li>United States - TSCA 8(a) - Chemical risk rules: Not listed</li> <li>United States - TSCA 8(a) - Chemical Precusor: Not listed</li> <li>United States - TSCA 8(a) - Chemical Data Reporting (CDR): Not determined</li> <li>United States - TSCA 8(a) - Preliminary assessment report (PAIR): Listed Diphenyloxide-4,4'-disulfohydrazide</li> <li>United States - TSCA 8(d) - Health and safety studies: Not listed</li> <li>United States - TSCA 8(d) - Health and safety studies: Not listed</li> <li>United States - EPA Clean water act (CWA) section 311 - Hazardous substances: Listed</li> <li>United States - EPA Clean air act (CAA) section 112 - Accidental release prevention - Flammable substances: Not listed</li> <li>United States - EPA Clean air act (CAA) section 112 - Accidental release prevention - Flammable substances: Not listed</li> <li>United States - Department of commerce - Precursor chemical: Not listed</li> </ul>
Clean Air Act Section 112(b)	:	Not listed
Hazardous Air Pollutants (HAPs) Clean Air Act Section 602 Class I Substances	:	Not listed
Clean Air Act Section 602 Class II Substances	:	Not listed
DEA List I Chemicals (Precursor Chemicals)	:	Not listed
DEA List II Chemicals (Essential Chemicals)	:	Not listed

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#### US. EPA CERCLA Hazardous Substances (40 CFR 302)

not applicable

SARA 311/312

Classification

: SKIN IRRITATION - Category 2 EYE IRRITATION - Category 2A RESPIRATORY SENSITIZATION - Category 1 SKIN SENSITIZATION - Category 1 GERM CELL MUTAGENICITY - Category 2

#### **Composition/information on ingredients**

Name	%	Classification
Calcium oxide	>= 1 - < 3	SKIN IRRITATION - Category 2
		SERIOUS EYE DAMAGE - Category 1
		SPECIFIC TARGET ORGAN TOXICITY (SINGLE
		EXPOSURE) - Respiratory tract irritation - Category 3
Zinc oxide	>= 1 - <= 3	EYE IRRITATION - Category 2B
Diphenyloxide-4,4'-	>= 5 - <= 10	COMBUSTIBLE DUSTS
disulfohydrazide		ACUTE TOXICITY - oral - Category 4
2		SKIN IRRITATION - Category 2
		EYE IRRITATION - Category 2A
		SKIN SENSITIZATION - Category 1
		GERM CELL MUTAGENICITY - Category 2
Sodium bicarbonate	>= 5 - <= 10	EYE IRRITATION - Category 2B
Miscellaneous Compounds	>= 10 - <= 25	ACUTE TOXICITY - inhalation - Category 4
Distillates, petroleum,		SKIN IRRITATION - Category 2
hydrotreated middle		ASPIRATION HAZARD - Category 1
Azodicarbonamide	>= 25 - <= 50	RESPIRATORY SENSITIZATION - Category 1

#### <u>SARA 313</u>

	Product name	CAS number	%
Form R - Reporting	Zinc oxide	1314-13-2	1 - 3
requirements			
Supplier notification	Zinc oxide	1314-13-2	1 - 3

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SARA 313 notifications must not be detached from the SDS and any copying and redistribution of the SDS shall include copying and redistribution of the notice attached to copies of the SDS subsequently redistributed.

<u>State regulations</u> Massachusetts New York New Jersey	:	None of the components are listed. None of the components are listed. The following components are listed: Calcium carbonate Diphenyloxide-4,4'-disulfohydrazide Zinc oxide Calcium oxide
Pennsylvania	:	The following components are listed: Calcium carbonate
		Zinc oxide
		Calcium oxide
<u>California Prop. 65</u> This product does not require a Safe Ha United States inventory (TSCA 8b)	arbor :	warning under California Prop. 65. All components are listed or exempted.
Canada inventory	:	At least one component is not listed in DSL but all such components are listed in NDSL.
International regulations		
Inventory list		
Australia	:	All components are listed or exempted.
Canada	:	At least one component is not listed in DSL but all such components are listed in NDSL.
China	:	All components are listed or exempted.
Europe inventory	:	All components are listed or exempted.
Japan	:	Not determined.
New Zealand	:	All components are listed or exempted.
Philippines Republic of Korea	:	All components are listed or exempted. All components are listed or exempted.
Taiwan	:	Not determined.
Turkey		Not determined.
United States	:	All components are listed or exempted.
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# Section 16. Other information

Hazardous Material Information System (U.S.A.)



Caution: HMIS® ratings are based on a 0-4 rating scale, with 0 representing minimal hazards or risks, and 4 representing significant hazards or risks. Although HMIS® ratings and the associated label are not required on SDSs or products leaving a facility under 29 CFR 1910.1200, the preparer may choose to provide them. HMIS® ratings are to be used with a fully implemented HMIS® program. HMIS® is a registered trademark and service mark of the American Coatings Association, Inc.

The customer is responsible for determining the PPE code for this material. For more information on HMIS® Personal Protective Equipment (PPE) codes, consult the HMIS® Implementation Manual. History

Date of printing	:	05/03/2019
Date of issue/Date of revision	:	05/01/2019
Date of previous issue	:	06/29/2017
Version	:	1.2
Key to abbreviations	:	ATE = Acute Toxicity Estimate BCF = Bioconcentration Factor GHS = Globally Harmonized System of Classification and Labelling of Chemicals IATA = International Air Transport Association IBC = Internediate Bulk Container IMDG = International Maritime Dangerous Goods LogPow = logarithm of the octanol/water partition coefficient MARPOL = International Convention for the Prevention of Pollution From Ships, 1973 as modified by the Protocol of 1978. ("Marpol" = marine pollution) UN = United Nations
References	:	Not available.

#### Notice to reader

To the best of our knowledge, the information contained herein is accurate. However, neither the abovenamed supplier, nor any of its subsidiaries, assumes any liability whatsoever for the accuracy or completeness of the information contained herein. Final determination of suitability of any material is the sole responsibility of the user. All materials may present unknown hazards and should be used with caution. Although certain hazards are described herein, we cannot guarantee that these are the only hazards that exist. Particularly this information may not be valid for such material used in conjunction with any other materials or in any process, unless specified in the text.

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